Magna Metals Site

NYSDEC Site No. 360003

CORTLANDT, NEW YORK

Soil Vapor Investigation Work Plan

AKRF Project Number: 40256

Prepared for:

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1.0 INTRODUCTION

Investigation at the Magna Metals Site, located in Cortlandt, New York, has been conducted to comply with a New York State Department of Environmental Conservation's (NYSDEC) Consent Order (Site No. 360003). In June 2006, Tetra Tech EC, Inc. (TTI) submitted a letter report to the NYSDEC that summarized the results of soil vapor sampling and additional groundwater sampling. In November 2006, the NYSDEC issued a correspondence requiring sampling of the office/warehouse building located east of the former Magna Metals building to confirm that soil vapor intrusion is not occurring. This Work Plan outlines a protocol for collection of sub-slab soil vapor samples and air samples to satisfy the NYSDEC requirements.

2.0 SITE DESCRIPTION

2.1 Site Location

The Magna Metals site is located in the Town of Cortlandt, Westchester County, New York, near the intersection of Furnace Dock Road and Maple Avenue. A site location map is included in Figure 1. Nearby towns include Peekskill and Croton-on-Hudson, and the Hudson River is located 3 miles west of the site.

2.2 Site and Vicinity Characteristics

Locally, the site is part of a larger commercial property owned by Baker Properties, having several operating businesses which currently include Polymedco, Motion Labs, and Brook. The office/warehouse building was reported by the owner to include some manufacturing activities. Baker Properties acquired the property from ISC Properties, Inc. in 1982, and has leased it to various tenants. The identity of these tenants, their use of the property, and their waste disposal practices are unknown. The Croton Egg Farm and an inactive emery mine are located to the west and to the north-northwest of the site, respectively. To the north, south, and east of the project site are residential areas. A wetland area is located between the site and the residential area southwest of the site.

2.3 Site Geology, Hydrogeology and Subsurface Characteristics

Topography is variable throughout the 0.5-mile radius from the site. Elevations range from 300 to 600 feet above mean sea level (MSL). On the former Magna Metals site, topography ranges from 360 feet MSL along the eastern site boundary to 320 feet MSL along the western site boundary. Stormwater drainage flows towards the west, following site topography, and drains into an unnamed tributary to Furnace Brook. The tributary flows south/southwest and discharges into a pond located in a large wetland area.

Stormwater on the former Magna Metals site leaves the site via overland flow and enters into the unnamed tributary. One catch basin was observed by TTI on the former site property. This basin is located in the central western portion of the site and collects discharge water from a roadway/parking area. The roadway is a mix of gravel and pavement. A search for the catch basin's outfall pipe was conducted along the unnamed tributary. An outfall pipe was not located. The stormwater collection system on Furnace Dock Road discharges into the unnamed tributary near the intersection of Furnace Dock Road and Gilman Lane.

The geologic characteristics of the subsurface conditions at the site consist primarily of a sandy to silty sand overburden unit, approximately 10 to 20 feet thick, overlying bedrock. The bedrock is mapped by the New York State Museum and Science Service as Hornblende Norite, which is a

part of the Cortlandt Mafic Complex. Overburden groundwater exists in the form of a very shallow overburden aquifer (i.e., typically less than five feet in thickness). Groundwater flow from the site is in the western direction towards the stream and wetland area.

Results of the slug tests completed by TTI indicate a range in hydraulic conductivity values from 5.3 x 10⁻⁵ cm/sec (or 0.16 ft/day) at MW-1 in the higher portion of the site to 2.2 x 10⁻³ cm/sec (6.2 ft/day) at MW-3 in the lower portion of the leach pit area. Previous groundwater sampling by TTI indicates that some monitoring wells were observed to be dry during seasonal low groundwater conditions.

2.4 Review of Site History

Metal plating, polishing, and lacquering operations were conducted at the Magna Metals site from 1955 to 1979. During operation, iron, lead, copper, nickel, and zinc chlorides, cyanides, and sulfates were discharged to a series of leaching pits. Spent trichloroethylene (TCE) was drummed and removed.

2.5 Previous Studies

Between 1978 and 1984, site investigations were completed by the New York State Department of Health (NYSDOH), the NYSDEC, and William Cosulich to determine if property uses had resulted in contamination. The investigations concluded that soil, groundwater, sediment, and, surface water contamination existed at the site.

In 1998, Foster Wheeler Environmental Corporation (predecessor to TTI) completed a Remedial Investigation/Feasibility Study (RI/FS) to delineate the nature and extent of leach pit/septic tank/holding tank, surface water, sediment, surface soil, subsurface soil, and groundwater contamination at the site, such that an evaluation of (1) the nature and extent of site contamination, (2) the potential impacts, if any, and (3) the remedial measure options could be performed. The field investigation program consisted of the drilling of soil borings, the installation and development of monitoring wells, the performance of a habitat-based assessment, and the sampling and analysis of various environmental media including septic tank/leach pit sludge and water, surface soil, subsurface soil, surface water, sediment, and groundwater. A geophysical survey was added to the field investigation to improve location accuracy of the leach pit/septic tank/holding tank sampling.

In 2004, TTI completed a Draft Supplemental RI/FS to perform horizontal and vertical delineation of the soil and groundwater contamination in the potential source area of the site, the leach pit area. The investigation included a geophysical and excavation survey to locate leach pits, leach pit excavation, a homeowner well survey, installation of overburden monitoring wells and a bedrock monitoring well, and collection of soil, groundwater, surface water and sediment samples. Based on the data compiled in the supplemental investigation, TTI concluded the following:

- Concentrations and distributions of contaminant compounds and analytes detected during the Supplemental RI are consistent with contaminant concentrations and distributions detected during previous investigations.
- Xylenes, semivolatile organic compounds (SVOCs), and metals were detected in leach pit sludge samples. Xylenes were detected in soil samples collected below the leach pits
- TCE was detected in the groundwater sample collected from MW-04 and MW-04D.
- Media sampled were affected by inorganic contaminants of concern at concentrations above soil cleanup criteria. In particular, chromium, copper, mercury, nickel, and zinc are

potentially site related compounds that were detected at concentrations exceeding applicable criteria.

- Thirteen leach pits/septic pits had been discovered at the Magna Metals site.
- There appeared to have been two phases of leach pit/septic tank construction at the site. The first and older set of leach pits was constructed of concrete cinder blocks with a soil or gravel bottom. The second phase of leach pits was constructed of prefabricated concrete cylinders with perforated sides and apparently soil or gravel bottoms. Sludge or sludge cakes were still present in twelve of the thirteen pits at the site.
- Based on inorganic analytical results (particularly copper) for the surface water, groundwater, and surface soil samples collected downgradient of the leach pit area and the former Magna Metals building, it appeared that the wetlands east of Furnace Brook and the unnamed tributary may have been impacted by contaminated groundwater or surface runoff originating in the vicinity of the leach pit area and site building.
- Impacts to pelagic and benthic aquatic life were observed in indigenous and laboratory based analyses. The primary environmental media of concern were surface waters and sediments of Furnace Brook, its unnamed tributary, and the palustrine wetlands associated with the site.

In 2006, TTI completed an additional investigation, which included the collection of groundwater samples from existing wells and two new wells next to the former Magna Metals building, and soil vapor samples from three exterior locations along western side of office/warehouse building, five exterior locations within the area containing the leach pits, and one interior sub-slab sample from the building south of the Magna Metals building and the office/warehouse building.

The sampling results indicated that groundwater collected from the two new monitoring wells did not contain contaminants above NYSDEC water quality standards and the overall samples were consistent with previous data. The soil gas sample results documented that VOCs were detected at concentrations ranging from 1 to 1,900 micrograms per cubic meter. A site map showing the soil gas sampling locations and the laboratory sampling results is included as Figure 2. TTI concluded that the sampling results were consistent with the findings of the current and previous sampling and did not indicate there were unknown sources.

In November 2006, the NYSDEC issued correspondence requiring the sampling of sub-slab soil vapor from the on-site office/warehouse building to the east of the Magna Metals building to confirm that soil vapor intrusion was not occurring. This was in response to a TCE concentration of 59 micrograms per cubic meter in one soil vapor sample (SV-03) that was collected next to the office/warehouse building.

3.0 FIELD PROGRAM

The objectives of the field-sampling program are to confirm that soil vapor intrusion is not occurring in office/warehouse building located east of the former Magna Metals building. This work plan has been prepared to implement the associated sampling activities in accordance with New York State Department of Health's (NYSDOH's) requirements (NYSDOH, 2006). The field program is outlined in Section 3.1, and the subsequent sections give the detailed methodologies for implementation.

3.1 Field Program Summary

It is AKRF's understanding that site access for the property and study building has been agreed upon between ISCP Properties and the property owner/manager through a signed access agreement. Sub-slab soil-gas samples and indoor air samples will be collected at five locations

from the lowest level in the office/warehouse building participating in this study. Figure 3 shows the project site building, the adjacent buildings, and the approximate locations for soil gas sampling. However, the exact position and the total number of these sampling locations will be determined in the field after completing a pre-sampling survey. The pre-sampling survey is described in Section 3.6 of this work plan.

3.2 Sub-Slab Soil Vapor Sampling

Soil gas samples will be collected using a stainless steel probe, consisting of a drive point and internal perforated sampling port with a retractable tip, connected to Teflon sampling tubing. The sampling tubing will extend from the sampling port through a drive casing to above grade. Collectively, the retractable tip, sampling port and sampling tube are referred to as the "soil gas sampler". Soil gas samples will be collected using the following procedures:

- 1. Prepare the sampling site by drilling through the building slab using a concrete drill equipped with a 2-inch diameter drill bit.
- 2. Attach new, clean ³/₁₆-inch inside diameter Teflon tubing to the sampling probe.
- 3. Drive the soil gas sampler and attached tubing to a depth of six inches below the bottom of the concrete slab.
- 4. Backfill the soil gas sampler with 6-inches of clean sand filter pack to prevent intake clogging.
- 5. Retract the drive casing to expose the three-inch perforated sampling port.
- 6. Record total depths (interval below grade) to which probe is advanced and withdrawn for sample collection.
- 7. Seal the annulus at the surface (between the building concrete slab and tubing) by placement of portland cement and let set overnight.
- 8. Install a 2-foot by 2-foot 6-mil plastic shroud over sampling point, seal to concrete floor using duct tape along the perimeter, and pull the Teflon soil gas sampling tubing through the shroud to allow for sampling collection.
- 9. Introduce tracer into sampling shroud by inserting new tubing connected to a helium tank.
- 10. Install new flexible hose to a peristaltic pump and connect the Teflon sample tubing to the hose. Connect the other end (discharge end) of the flexible tubing to a 1.0-liter Tedlar bag. Purge the soil gas sampler of approximately three sampler volumes (1-liter) by activating the pump to fill the Tedlar bag to capacity (see Appendix B for sampler volume calculations). The air withdrawal flow rate shall be 0.2 liters/minute or less.
- 11. During purging, a flow of helium gas will be introduced at the core hole for the soil gas sampling point. The Tedlar bag will be analyzed in the field using a Marks Model 9822 helium detector to check for short-circuiting of outside air into the sampling port. If helium is detected, re-seal soil gas point with hydrated bentonite and/or portland cement.
- 12. Disconnect the sample tubing from the peristaltic pump and connect it to the inlet of a labeled 1-liter Summa canister. Record the vacuum reading from the vacuum gauge on the canister at the beginning of the sampling period. Open the valve of the canister and record the time in the field book.

- 13. At the end of the sampling period (varies dependent upon locations) and prior to the vacuum gauge returning to ambient pressure, close valve, remove flow-rate controllers and vacuum gauges, install caps on canisters, and record the duration of the sampling period.
- 14. Place canisters in shipping containers for transportation to laboratory.
- 15. Decontaminate the stainless steel sampling probe by the following measures:
 - a. Scrub using tap water/Alkanox® mixture and bristle brush.
 - b. Rinse with tap water.
 - c. Scrub again with tab water/Alkanox® and bristle brush.
 - d. Rinse with tap water.
 - e. Rinse with distilled water.
 - f. Air dry equipment.
- 16. Dispose of the sample tubing.
- 17. Document sample locations and measurements in the field logbook or on field data sheets.

3.3 Indoor Air Sampling

Place a labeled 1-liter Summa canister at the breathing zone level (4.5 to 5 feet above ground surface) in the designated sampling location adjacent to the soil gas sampling location. Record the vacuum reading from the vacuum gauge on the canister at the beginning of the sampling period. Open the valve of the canister and record the time in the field book. At the end of the sampling period and prior to the vacuum gauge returning to ambient pressure, close valve, remove flow-rate controllers and vacuum gauges, install caps on canisters, and record time. Place canisters in shipping containers for transportation to laboratory.

3.4 Laboratory Methods

The samples will be analyzed for VOCs by EPA Method TO-15. All sample analysis will be performed in a New York State Department of Health Environmental Laboratory Approval Program (NYSDOH-ELAP) laboratory certified to perform NYSDEC Analytical Services Protocol (ASP). The laboratory will produce Category B deliverables. Samples will be shipped to the laboratory with appropriate chain of custody documentation.

3.5 Quality Assurance / Quality Control

In addition to the laboratory analysis of the field samples, additional analysis will be included for quality control measures. These samples will include one field blank and one blind duplicate to be analyzed for VOCs by EPA Method TO-15. The field blank will consist of collecting an air sample via the soil gas sampler exposed to ambient conditions. Category B deliverables will be produced for this project.

3.6 Pre-Sampling Survey

A pre-sampling survey will be conducted prior to initiating the soil vapor sampling program. The survey will be completed to document any factors that may affect indoor air quality. The survey will include interviews with building owners and/or building occupants. Documentation will be compiled of the building characteristics, air flow patterns, heating, venting and air conditioning, occupancy, water and sewage utilities, building operations, product inventory, and any other known factors that may affect indoor air quality. A NYSDOH Indoor Air Quality Questionnaire

and Building Inventory form will be used to document the results of the survey. The NYSDOH form is attached as Appendix B.

4.0 REPORTING REQUIREMENTS

4.1 Soil Vapor Investigation Report

Upon completion of all field work and receipt of laboratory analytical results, a Soil Vapor Investigation Report (SVIR) will be prepared that will: document field activities; present field and laboratory data; evaluate exposure and risks to human health; and discuss conclusions and recommendations drawn from the results of the investigation.

4.2 Schedule of Work

A tentative schedule for implementing the Soil-Vapor Investigation Work Plan is provided below:

Date	Activity
January 10, 2007	Submit Work Plan to NYSDEC & NYSDOH
February 9, 2007	Receive comments from NYSDEC & NYSDOH
February 26, 2007	Implement field program for soil vapor and air sampling
March 30, 2007	Submit Soil Vapor Investigation Report to NYSDEC & NYSDOH

5.0 REFERENCES

Foster Wheeler Environmental Corporation; Remedial Investigation/Feasibility Study (RI/FS), Magna Metals Site, Gortlandt, New York; June 1998.

Tetra Tech FS, Inc.; Draft Supplements Remedial Investigation Report, Magna Metals Site, Cortlandt, New York; August 2004.

Tetra Tech EC, Inc.; Data Findings From the Additional Data Collection Activities for the Former Magna Metals Site (NYSDEC Site No. 360003), Cortlandt, New York; June 2006.

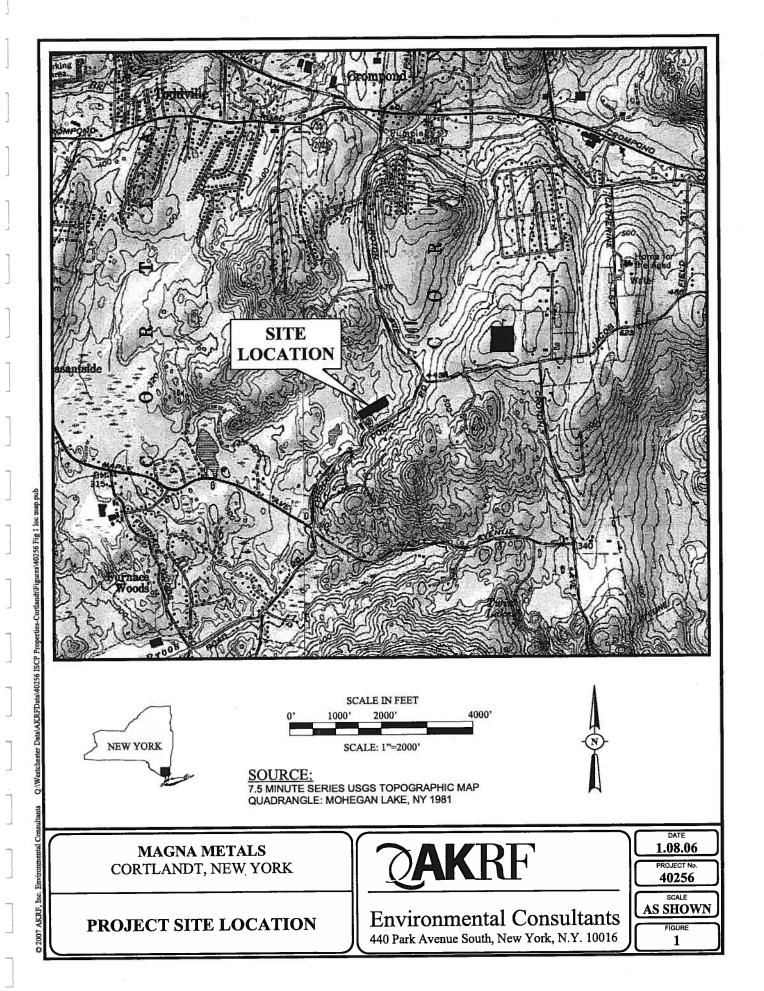
New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

New York State Department of Environmental Conservation, Division of Environmental Remediation, DER-13/Strategy for Evaluating Soil Vapor Intrusion at Remedial Sites in New York, October 2006.

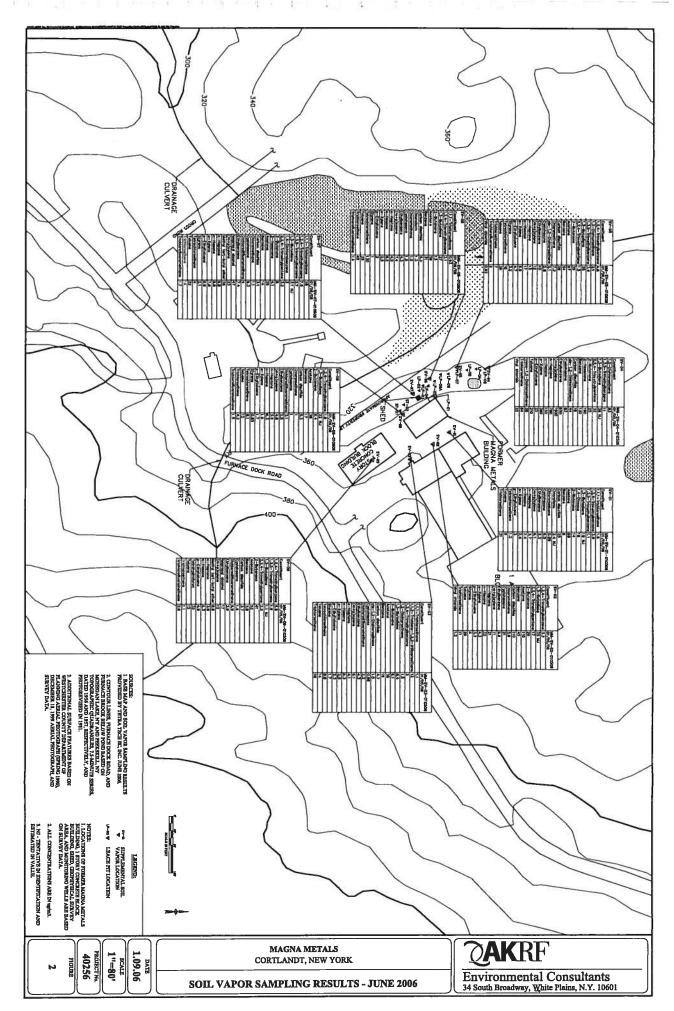
New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft DER-10/Technical Guidance for Site Investigation and Remediation, December 2002.

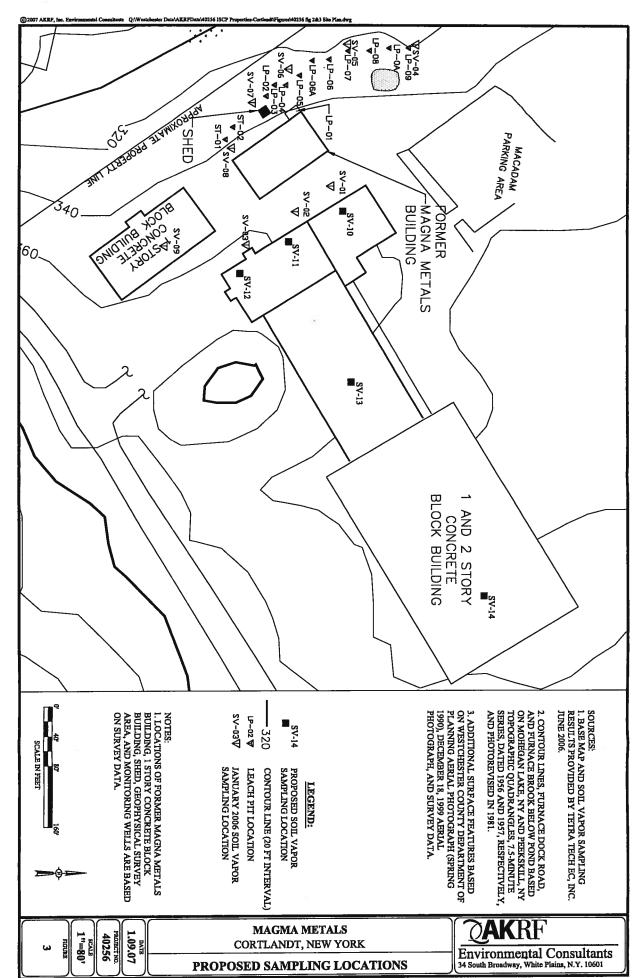
New York State Museum and Science Service Geological Survey, Map and Chart Series No. 15; Geologic Map of New York, Lower Hudson Sheet, New York; 1970; Reprinted 1995.

FIGURES



BCLP02845





APPENDIX A
PURGE VOLUME CALCULATION

Soil Gas Sampler Purge Volume Calculation

Volume of Sampling Tip & Disturbed Boring

Inside Diameter =

2 in

Length (sampling tip + drive tube) =

6 in

$$V_1 = pi * [2/(2*12)]^2 * 6/12 =$$

1.1E-02 ft³

Volume of Teflon Tubing

Inside Diameter = 3/16" = 0.1875"

0.1875 in

Length =

3 ft

$$V_2 = pi * [0.1875/(2*12)]^2 * 5 =$$

5.8E-04 ft³

Total Volume of Sampler

$$V = V_1 + V_2 =$$

 $1.1E-02 \text{ ft}^3 =$

3.3E-01 liter

3x volume =

1.0 liter

APPENDIX B

NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE

AND BUILDING INVENTORY FORM

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name		Date/Time l	Prepared	
Preparer's Affiliation		Phone No		
Purpose of Investigation_		4		
1. OCCUPANT:		12 2		
Interviewed: Y/N				
Last Name:		First Name:		
Address:		65	<u> </u>	12
County:				
Home Phone:	Offic	e Phone:		
Number of Occupants/per	sons at this location	Age of Occupan	ts	
2. OWNER OR LANDL	ORD: (Check if sa	ame as occupant)		
Interviewed: Y/N				_
Last Name:	F	irst Name:	· · · · · · · · · · · · · · · · · · ·	-
Address:				
County:			£	
Home Phone:	Offi	ce Phone:		
3. BUILDING CHARAG	CTERISTICS			
Type of Building: (Circle	e appropriate respon	ise)		
Residential	School Church	Commercial/Multi-use Other:		34

If the property is residential, type? (Circle appropriate response)

Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	se		ıl			
If multiple units, how many?							
If the property is commercial,	type?					Ÿ.	
Business Type(s)				<u></u>			
Does it include residences	(i.e., multi-use)?	Y/N		If yes, how	many?		
Other characteristics:							
Number of floors		Buildin	g age			(90)	
Is the building insulated? Y	/N	How ai	r tight?	Tight / Ave	rage / Not T	ight	
4. AIRFLOW							
Use air current tubes or trace	r smoke to evalu	iate air:	flow pat	terns and q	ualitatively	describe:	
Airflow between floors		72					
	#						
Airflow near source					J		
							_
Outdoor air infiltration							
Infiltration into air ducts							

BASEMENT AND CONS	STRUCTION C	HARACTERISTIC	S (Circle all that a	pply)
a. Above grade construct	ion: wood :	frame concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other
c. Basement floor:	concre	te dirt	stone	other
d. Basement floor:	uncov	ered covered	covered with	
e. Concrete floor:	unseal	ed sealed	sealed with _	
f. Foundation walls:	poured	d block	stone	other
g. Foundation walls:	unseal	ed sealed	sealed with _	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finish	ed unfinished	partially finis	shed
j. Sump present?	Y/N			
k. Water in sump?	Y/N/not app	plicable		
				<u></u>
			·	
. HEATING, VENTING a				ury)
Hot air circulation Space Heaters	Heat 1		t water baseboard diant floor	
Electric baseboard			itdoor wood boiler	Other
he primary type of fuel use	ed is:		*	
Natural Gas Electric Wood	Fuel (Propa Coal		erosene lar	
omestic hot water tank fue	led by:			
oiler/furnace located in:	Basement	Outdoors M	ain Floor	Other
1099. #31				

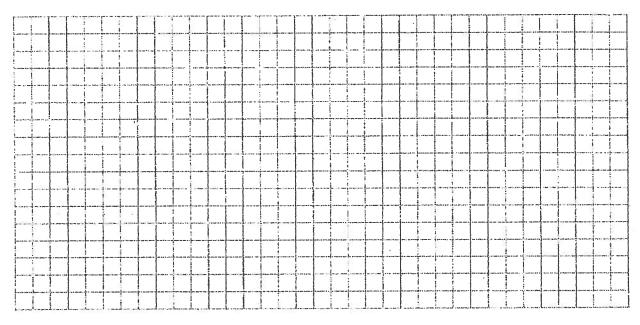
Are there air d	distribution ducts present? Y/N			
Describe the su there is a cold diagram.	apply and cold air return ductwork, and its air return and the tightness of duct joints.	condition v Indicate th	where visible, in e locations on th	cluding whether ne floor plan
				
per ever known inne		5		
	X)			
7. OCCUPAL	NCY			
Is basement/lo	west level occupied? Full-time Occ	asionally	Seldom	Almost Never
Level	General Use of Each Floor (e.g., familyro	om, bedro	om, laundry, wo	rkshop, storage)
Basement				
1 st Floor	8 5			
2 nd Floor	- 1			
3 rd Floor			2	
4 th Floor				
				-
8. FACTORS	THAT MAY INFLUENCE INDOOR AIR	QUALITY	?	
a. Is there a	n attached garage?		Y/N	
b. Does the	garage have a separate heating unit?		Y/N/NA	
	leum-powered machines or vehicles the garage (e.g., lawnmower, atv, car)		Y/N/NA Please specify_	
d. Has the b	uilding ever had a fire?		Y/N When?	
e. Is a keros	ene or unvented gas space heater present?		Y/N Where?	·
f. Is there a	workshop or hobby/craft area?	Y/N	Where & Type	?
g. Is there s	moking in the building?	Y/N	How frequently	?
h. Have clea	ning products been used recently?	Y/N	When & Type?	<u></u>
i. Have cosn	netic products been used recently?	Y/N	When & Type?	9

j. Has painting/stai	ning been done	in the last 6 mo	nths? Y/N	Where & Wh	en?
k. Is there new car	pet, drapes or ot	her textiles?	Y/N	Where & Wh	en?
l. Have air freshen	ers been used re	cently?	Y/N	When & Type	e?
m. Is there a kitche	en exhaust fan?		Y/N	If yes, where	vented?
n. Is there a bathr	oom exhaust fan	? ?	Y/N	If yes, where	vented?
o. Is there a clothe	dryer?		Y/N	If yes, is it ve	nted outside? Y/N
p. Has there been s	-	cation?	Y/N	When & Type	e?
Are there odors in If yes, please desc			Y/N		
Do any of the building (e.g., chemical manufaboiler mechanic, pesting of the period of	ecturing or labora cide application,	tory, auto mecha cosmetologist	anic or auto body		
If yes, are their clot			Y/N		3
Yes, use dry-	eleaning regularly eleaning infreque a dry-cleaning ser	(weekly) ntly (monthly or	·	No Unknown	
Is there a radon miti Is the system active (r the building/s Active/Passive		Date of Insta	llation:
9. WATER AND SE	WAGE			2	
Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other:
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other:
10. RELOCATION	INFORMATIO	N (for oil spill r	esidential emerg	gency)	
a. Provide reaso	is why relocation	n is recommend	led:		· · · · · · · · · · · · · · · · · · ·
b. Residents choo	ose to: remain in	home reloca	ate to friends/fan	uly reloc	ate to hotel/motel
c. Responsibility	for costs associa	ited with reimb	ursement explai	ined? Y/N	1
d. Relocation page	ckage provided :	and explained to	o residents?	Y/N	1

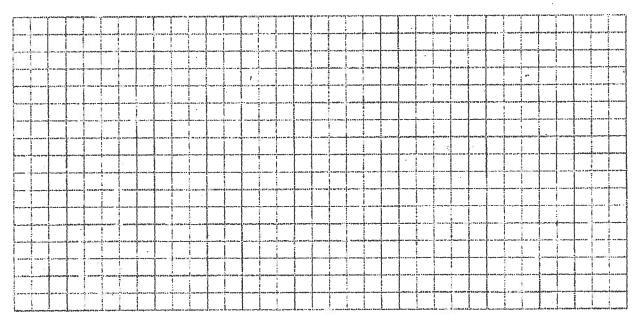
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



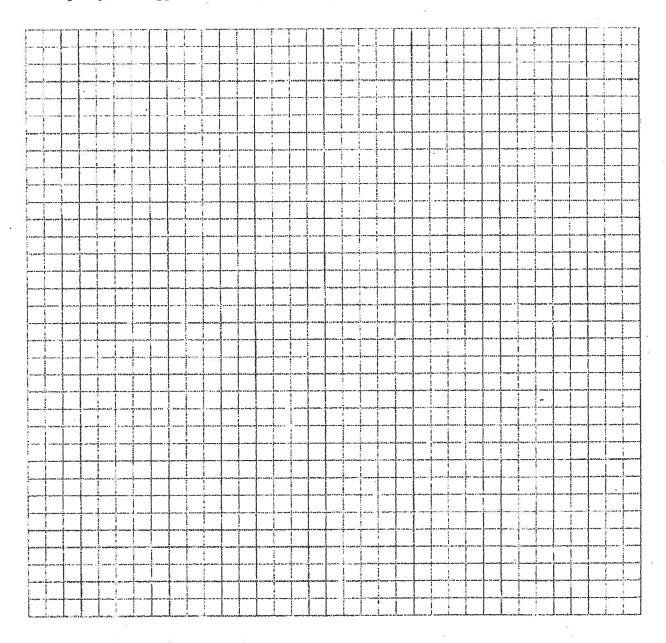
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13	. PRODUCT	INVENT	'ORY	FORM
1.3		4 F 124 F 18		I. OIMI

Make & Model of field instrument used:	
List specific products found in the residence that have the potential to aff	ect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
	8					
	•		#		96	
•						
						2
	5			îi .		
						4.
		-				14
						(4)
		*				
			ët.			

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

P:\Scotions\SIS\OII Spills\Guidance Docs\OSR-3.doc

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.